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EQUIPMENT DIVISION



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 Page 1 of 1 page
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8 June 1970



NGA review(s) completed.

Subject: Proposal "Imagery Experimentation Support"

Enclosure: 1. Original and two (2) copies of subject
 Proposal No. 8384

Dear Sir:

We are pleased to forward herewith the enclosure which together with this letter constitute our proposal for conducting the subject effort.

Our proposal is predicated upon receiving a Time and Material contract. The categories of labor and rates shown in Appendix I are for the period 1 July 1970 through 31 December 1970. It is our intention to negotiate applicable rates at six (6) month intervals.

The estimated cost (for funding purposes) is approximately [redacted] The work outlined in the enclosed proposal will be accomplished during the period 1 July 1970 through 30 September 1971.

Our terms are net thirty (30) days and this proposal may be considered firm for a period of sixty (60) days. If you desire further information, please contact the undersigned.

Very truly yours,



Contracts Manager

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AJE/me
 Encl.

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Proposal for:
IMAGERY EXPERIMENTATION SUPPORT

Proposal No. 8384

Prepared For:

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8 June 1970

Log No. PB6-70-534 (s)

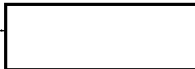
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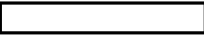
FOREWORD

Technical support and assistance is to be provided in the following areas:

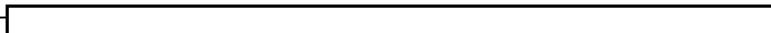
- Data Reduction and Liaison
- Interpreter Testing and Instruction
- Photo-Laboratory, Instruction, Performance Studies and Miscellaneous Support

The proposal is arranged in four sections consisting of:

1. Introduction
2. Technical Discussion
3. Work Statement Content
4. Deliverable Items

A statement of  qualifications to perform the proposed effort is included as a separate section.

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1. INTRODUCTION1.1 General

The [] proposes to provide Technical Services and Material to assist in specific aspects of studies designed to determine through photointerpreter and/or mensuration performance future reconnaissance system needs and capabilities. Some of the immediate objectives are to determine the intelligence value of imagery for ground order of battle targets (tanks, artillery, APCs) from the relationship of interpreter performance, target ground resolution, and in some cases intelligence analyst estimates.

2. TECHNICAL DISCUSSION

The proposal work statement is arranged in three subsections, each indicating areas of assistance to be provided.

1. Data Reduction and Liaison
2. Interpreter Testing and Instruction
3. Photo-Laboratory, Performance Studies and Miscellaneous Support.

The technical approach is similar to the four previous time and material support contracts dealing with performance studies. This proposal, although a direct contract from the sponsor has its scope effort of work governed by another of the sponsors contractors []

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3. WORK STATEMENT CONTENT3.1 Data Reduction and Liaison

[] has assisted and will continue to assist in arranging for the acquisition of suitable imagery for ground order of battle targets and other program studies. Previous studies were conducted on three target types (offensive missiles, mobile radar and ground order of battle equipment) as a function of ground resolution and on the latter multiple line scan parameters, have been directed and performed with []

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[] It is the intent of the follow-on contract that the relationship will continue. The proposals of [] will be used as a guideline for the planned studies. It is anticipated that a major portion of the experimentation will focus on photographic ground order of battle target studies. Imagery from the previous year was collected over the []

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[] and the missile display area at []

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[] will assist in the evaluation of the aerial imagery and the simulated study imagery for sponsor uses and the suitability for the planned and future resolution studies. Any acquired imagery will be

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"packaged" for use during the testing and evaluation phases of the studies. Imagery and data will be prepared for each selected target and will consist of an enlarged print and a target description similar to a photo interpretation key. Following the testing and analysis phases of the studies there is a need to perform research on the test imagery and readouts to similar operational targets and imagery. Some of the similar imaging parameters will be resolution, scale and haze.

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[] will provide continued liaison and technical assistance to all project personnel and the sponsor. Prior work included the arranging the ground truth and aerial acquisition programs. Assistance will also be provided for the conduct of experiments, analysis of the results and development of the final report.

3.2 Interpreter Testing and Instruction

The sponsor test subjects will be thoroughly briefed on the procedures and scope of the study programs. Close coordination will be maintained with operational personnel to insure that procedures and outputs will approximate existing and planned operations. Detailed explanations will also be made on the use of all imagery, graphics, textual data and the needed form that the study responses will take. Where possible a briefing of the final study results will be given the participants.

3.3 Photo-Laboratory, Performance Studies and Miscellaneous Support

Photo-processing support by [] will be provided as needed in combination with assistance for performance studies test planning. Acquisition programs including ground truth collection and specially designed image quality (resolution) analysis of acquired imagery and other study input materials will be coordinated by []. The material will be provided to the sponsor to a retrievable file for the sponsor. The file of imagery would be placed in a data bank that could be used for other studies, equipment checkout, target reference material and training material. In addition, [] personnel will supply other miscellaneous services and perform any trips that the Contracting Officer/Technical Monitor may desire.

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4. DELIVERABLE ITEMS

4.1 Reports

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[] will provide monthly progress letters to the sponsor in order to indicate project status problems, achievements, and funds expended.

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[] will also provide report inputs to the other project contractors so that the inputs can be incorporated into a single overall program final report.

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4.2 Project Management

The proposed tasks will be managed by [REDACTED]. He will be assisted in technical matters by [REDACTED] and for contractual and security matters by [REDACTED] and [REDACTED] respectively. A Statements of Qualifications is attached. It includes a description of [REDACTED] experience, its facilities, related contracts and resumes of the technical personnel to be assigned to the project.

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25X14.3 Task Schedule

A definitive task schedule cannot be accurately estimated since the work level of effort is dictated by the proposed work of [REDACTED]. It is anticipated that a major bulk of the work will be conducted in the summer and fall of 1970, since the subject testing is scheduled to begin in late July. Other tasks can also be assigned by the Contract Technical Monitor.

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Services required by the Contracting Officer or his authorized representative and performed by [REDACTED] personnel of the labor categories specified in Appendix I will be considered Direct Labor.

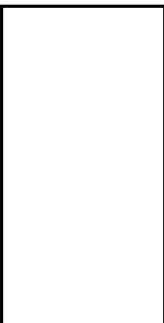
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The proposed period of performance shall commence on 1 July 1970 and shall expire on 30 September 1971; however, said period of performance may be extended by mutual agreement between the Government and [REDACTED].

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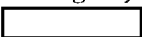

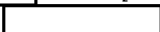
APPENDIX I
CATEGORIES OF LABOR AND RATES
PERIOD 1 JULY 1970 THROUGH 31 DECEMBER 1970

<u>Code</u>	<u>Category</u>	<u>Rate Per Hour</u>
00	Principal Scientist/Engineer I	
01	Principal Scientist/Engineer II	
02	Senior Scientist/Engineer	
03	Scientist/Engineer	
04	Associate Scientist/Engineer	
13	Engineering Clerk	
15	E & D Machinist	
20	Technical Specialist I	
21	Technical Specialist II	
22	Technical Specialist III	

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The above rates were calculated as follows:

Average Base Labor Rate plus Overhead @ 150%, G & A @ 10.4%
and Profit @ 10%

Other Direct Charges, i.e., Travel and Living Expenses, and Materials
furnished by  in the performance of this effort shall be at
net cost, excluding G & A and Profit, to  Computer Rental
shall be at net cost, plus G & A and Profit, to 

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